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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 20386/0205092 US0 10/590840
INTERNATIONAL APPLICATION NO. PCT/US02/21860	INTERNATIONAL FILING DATE 26 June 2002	PRIORITY DATE CLAIMED 27 June 2001
TITLE OF INVENTION MODULAR MICRO-REACTOR ARCHITECTURE AND METHOD FOR FLUID PROCESSING DEVICES		
APPLICANT(S) FOR DO/EO/US Eric J. Davis et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 20 below concern document(s) or information included:		
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

Approved for use through 03/31/2007. OMB 0651-0021  
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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U.S. APPLICATION NO. (Indicate by PCT/US02/21860)	INTERNATIONAL APPLICATION NO. PCT/US02/21860	ATTORNEY'S DOCKET NUMBER 20386/0205092-US0
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10/590640

20.	<input checked="" type="checkbox"/>	Other items or information: Petition for Revival of an International Application for Patent Designating the US Abandoned Unintentionally under 37 CFR 1.137(b), Communication, Certificate of Express Mailing, Return Postcard
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The following fees have been submitted	CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300	\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 All other situations .....\$200	\$ 200.00	
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....\$400 All other situations .....\$500	\$ 100.00	
TOTAL OF 21, 22 and 23 =	\$ 600.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)
41 - 100 =	/50 =	x \$250.00
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	19 - 20 =	x
Independent claims	1 - 3 =	x
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+
TOTAL OF ABOVE CALCULATIONS =		
\$ 600.00		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		
SUBTOTAL =		
\$ 300.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		
TOTAL NATIONAL FEE =		
\$ 300.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		
1453 Petition to revive unintentionally abandoned application under 37 CFR 1.17(m) +		
\$ 750.00		
TOTAL FEES ENCLOSED =		
\$ 1,050.00		
Amount to be refunded:		\$
Amount to be charged		\$

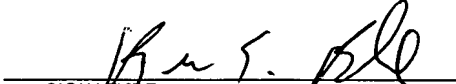
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- a. ☒ A check in the amount of \$ 1,050.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit  
Account No. 04-0100 . ~~A duplicate copy of this sheet is enclosed.~~
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information  
should not be included on this form. Provide credit card information and authorization on PTO-2038

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be  
filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Bruce E. Black  
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SIGNATURE

Bruce E. Black, Ph.D.  
NAME

CUSTOMER NUMBER: 07278

41,622  
REGISTRATION NUMBER

Application No. (if known): Not Yet Assigned

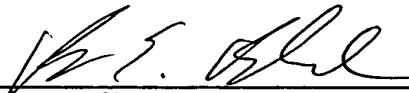
Attorney Docket No.: 20386/0205092-US0

## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 562927836 US in an envelope addressed to:

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on August 23, 2006  
Date



Signature

Bruce E. Black, Ph.D.

Typed or printed name of person signing Certificate

41,622  
Registration Number, if applicable

(206) 262-8900  
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3 pages)

Application Data Sheet (3 pages)

Petition for Revival of an International Application for Patent Designating the US Abandoned Unintentionally under 37 CFR 1.137(b) (2 pages)

Communication (2 pages)

Preliminary Amendment (7 pages)

Information Disclosure Statement (2 pages)

PTO SB/08 (1 page)

Check in the amount of \$1,050.00

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10/590640  
1AP9 Rec'd PCT/PTO 23 AUG 2006

Docket No.: 20386/0205092-US0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Eric J. Davis et al.

Application No.: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Filed: Concurrently Herewith

Art Unit: Not Yet Assigned

For: MODULAR MICRO-REACTOR  
ARCHITECTURE AND METHOD FOR FLUID  
PROCESSING DEVICES

Examiner: Not Yet Assigned

**COMMUNICATION**

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Accompanying this Communication is a Petition for Revival of an International Application for Patent Designating the U.S. Abandoned Unintentionally under 37 C.F.R. §1.137(b). As per M.P.E.P. §711.03(c)(D) the following is an explanation of the delay in discovering the abandoned status of the application.

The abandoned status of the application was discovered in late June 2006 when the owner of the patent application contacted the below-signed representative to assist in response to an Office Action in the corresponding Chinese patent application. Upon review of the status of that case and other National Stage filings it was determined that a corresponding U.S. National Stage filing had not been made.

It appears that the due date for the U.S. National Stage filing was either missed by previous counsel or during transition from previous counsel to other counsel. The patent owner believed that either a U.S. utility application or a U.S. National Stage filing had been made. The failure to make a U.S. National Stage filing was unintentional and, accordingly, the patent owner and applicants request revival of the international application for patent designating the U.S. abandoned unintentionally under 37 C.F.R. §1.137(b).

If there are any questions about this filing, it is respectfully requested that the Office contact the Applicants' representative listed below.

Dated: August 23, 2006

Respectfully submitted,

By B. E. Black  
Bruce E. Black

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